

ABSTRACT**~~Dog-clutch-coupling device~~**

The invention relates to a device for coupling two shafts ~~(2, 3)~~ intended to rotate in the continuation of one another about an axis $[(1)]$. The device comprises a dog clutch $[(9)]$ allowing the driving shaft $[(2)]$ to drive the driven shaft $[(3)]$, and declutching means allowing the dog clutch $[(9)]$ to be uncoupled from a clutch-engaged position to a declutched position. The declutching means comprise at least one first channel $[(13)]$ secured to a driving element $[(12)]$ of the dog clutch $[(9)]$, the first channel $[(13)]$ having the shape of a portion of a torus about the axis $[(1)]$, at least one second channel $[(16)]$ secured to the driving shaft $[(2)]$, the second channel $[(16)]$ having a helical shape about the axis $[(1)]$, and a rolling element $[(17)]$ intended to roll between the first $[(13)]$ and in the second channel $[(16)]$.

~~Fig. 1~~